

Aqueous Dispersions Containing Multi-stage Emulsion Polymers

ABSTRACT OF THE DISCLOSURE

5 Aqueous dispersions are disclosed, having a minimum film formation temperature no greater than about 50°C, that include a multi-stage emulsion polymer made by a process that includes a first polymerization stage, in which a first monomer mixture having a calculated glass transition temperature of at least about 50°C is polymerized via free radical emulsion polymerization to obtain a first-stage emulsion polymer, and a second 10 polymerization stage, in which a second monomer mixture, having a calculated glass transition temperature from about -30°C to about 10°C, is polymerized via free radical emulsion polymerization, in the presence of the first-stage emulsion polymer. The dispersions are useful in a variety of 15 coating compositions that exhibit improved block resistance.

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